

THE TECH ROUTED BY SNEAKERS IN COLD GAME, 13-0

"Technique" Keeps Ball Out Of
Own Territory During
Most Of Game

ESSLEY MAKES 7 POINTS

THE TECH football team went down in defeat, 13-0, Saturday afternoon under a heavier and stronger team from *Technique*. The game was played in a cold, penetrating wind. *Technique* was able to keep the ball out of its own territory most of the time as a result of the futile long passes which were repeatedly muffed by the newsies. The weather was excellent for a hard, bucking game, but as neither team had had enough time to work up efficient line plays, end runs were in the majority. The *Technique* team had the advantage of a heavy line which had practised in the art of taking out the opposing man. The news-room line, as a result, was unable to hold sufficiently well to insure effective plays of any kind, and was not able to break up the plays of the opposition.

Norcross Scores

Norcross made the first score of the game in a two-yard plunge after the ball was put in scoring position by Essley and Davis. Essley then pushed the ball across the goal line for the

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Freshman Officers Will Discuss Plans To Revive Bonfire

Tradition Of Discarding Ties First Adopted In 1928 Unsuccessful Since

Freshman ties may again be consumed by fire this year, as this question will be the chief subject of discussion in the first meeting of the newly elected freshman officers tomorrow at five o'clock in Walker Memorial. The class officers and the freshman representatives to the Institute and Executive committees are to be present at the meeting.

The other subject to be brought up at this meeting is the yearly freshman dance which, according to Philip G. Briggs, president of the class, will come some time in February. Last year an informal dance was held on December 18, when the freshmen disposed of their ties in a funeral casket.

Only Successful Bonfire In 1928

The only successful freshman bonfire was held in 1928 when the Class of 1931 formally relinquished their cardinal and silver ties. At that time they held an auspicious ceremony at which the late Dr. Samuel W. Stratton, Dean Harold E. Lobdell, '17, and Orville B. Denison, '11, were present. Dr. Stratton addressed the class and "Obie" Denison led them in cheers and songs. A large bonfire was made and the freshmen formed a huge snake dance, each one throwing his tie into the fire as he went by. A fifteen-foot oak was planted to commemorate the occasion.

So successful was this tie-burning ceremony that it was decided to continue it, and an attempt was made to make it a tradition. However, the following two classes failed for one reason or another to follow it. Bad weather made it impossible for the Class of 1932 to have a fire, while some trifling causes spoiled the plans of the Class of '33. The following year the present Junior Class made plans to revive the custom, but the Cambridge Fire Department refused them the permit for the bonfire, required by law.

Two Members Of Byrd South Pole Expedition Are Institute Students

E. J. Demas, Skilled Airplane
Mechanic in Aeronautical
Engineering Course

Two veterans of the Byrd Antarctic Expedition, one with the distinction of having operated the first motorized land vehicle on the continent of Antarctica, the other a skilled airplane mechanic who has worked on many famous trans-atlantic planes, are students at the Institute. The former, Arnold H. Clarke, '36, acted part of the time as assistant to F. H. Davies, the physicist of the expedition, a graduate of the University of Wales, University of Saskatchewan, and McGill and worked in the magnetic observatory in Little America. The latter, Epaminondas J. Demas, is a veteran of the North Pole Expedition and did work on the plane that made the North Pole flight, the one that crossed the South Pole, and also Admiral Byrd's trans-atlantic plane.

They are living on a sailing vessel in the Navy Yard, the "Bear of Oakland," where they cook their own meals and accomplish most of their studying. Clarke, who intends to go into commercial shipping, is in the Marine Engineering and Ship Operation course. Demas, desiring to supplement his wide experience with theoretical knowledge of aeronautics, is in a variation of Course XVI, as yet not classified. Among the planes he has worked on are Lindbergh's "Spirit of St. Louis," the "Columbia" of Chamberlin and Levine, "The American Girl" of Ruth Elder, "Old Glory" of Bertraud and Haines, and the Sikorsky of Miss Grayson.

So well prepared for the unexpected was the last expedition that while moments of danger often came up, the equipment and the alertness of the men were always adequate for the situations.

Commenting on the North Pole expedition, Demas said, "All you needed to take along was your strength. The rest was provided. I was aware of Arctic conditions and was willing to work. An expedition of this sort is nothing but common sense and work."

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MANY EXPECTED AT ANNUAL I.F.C. DANCE

Clevelanders and Alabama Aces
Will Provide the Music
For Fall Prom

More than two hundred couples are expected to attend the annual Fall Prom of the Interfraternity Conference which will be held at the Bradford Hotel, next Friday, December 2.

The committee has secured two nationally known orchestras, the Clevelanders and the Alabama Aces. The Clevelanders for the past two years have played during the winter season at the Golden Pheasant, Cleveland's premier rendezvous for after-theatre-goers, simultaneously broadcasting over radio station WTAM. The orchestra plays at the Steel Pier in Atlantic City during the summer season. The Alabama Aces have recently emerged in the limelight, with the completion of an engagement at the Savoy Ballroom in New York City.

During the intermission, while a buffet supper is being served, entertainment will be supplied by prominent stage stars. Among these will be the "Four Diamond Flashes" who completed a run of six weeks at the Metropolitan Theatre this summer.

Chaperones for the prom are President and Mrs. Karl T. Compton, Professor and Mrs. J. R. Jack, and Commander and Mrs. H. E. Rossell.



EPAMINONDAS J. DEMAS, Unc.
"He worked on Byrd's planes"

Asserts Chemical Warfare Cannot Be Outlawed By Pacts

Professor Keyes Tells Society
Chemicals Are Too Effective
To Be Discarded

That pacts between nations to outlaw chemical warfare are useless unless there are means to enforce them was declared by Professor Frederic G. Keyes, head of the department of Chemistry, in a talk "Applied Science in the Last War" before a meeting of the M. I. T. Chemical Society last Tuesday evening.

"Experience has shown that when new weapons had demonstrated their effectiveness they were not discarded," said the speaker. "If what will happen in the future can be foreshadowed by past experience, it is not probable that as humane a weapon as chemical warfare will be discarded."

Chemical Warfare Effective

According to Professor Keyes, the use of chemicals in war is particularly effective because the number of casualties in enemy forces is enormous. This clogs lines of communication, fills hospitals, and cripples generally the enemy's organization behind the lines. A gassed man requires great attention and must be relieved from exertion, while the man who suffers bodily injury can be taken care of with comparative ease, he said.

Professor Keyes explained that shells and high explosives do away permanently with the victims, while gas temporarily puts large numbers of men out of the fighting.

As a matter of humanitarianism in warfare, chemicals are decidedly advantageous because poison gases cannot

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SEDGWICK SOCIETY HEARS DR. WESTON

Dr. Weston of Harvard, President of the American Mycological Society, spoke on "Some Personal Experiences in Panama", before the Sedgwick Biological Society at its monthly meeting in the Emma Rogers Room, at the Institute, last Wednesday.

Aided by moving pictures and slides, Dr. Weston talked on nature in the tropics, especially on the Barro Colorado Island in Gatun Lake. He told of the strange contrast of the undisturbed life on the island and the amount of traffic through the canal. The Sedgwick Society promises many more interesting speeches in the near future.

Edward A. Filene Opens Series of Aldred Lectures

Prominent Boston Merchant Will
Speak At the Institute
Next Friday

Edward A. Filene, the noted economist and president of William Filene's Sons Company, has accepted an invitation to deliver the first of the distinguished Aldred Lectures at the Institute. His address will be given in Room 10-250 at 3 o'clock next Friday.

Because of Mr. Filene's reputation for frank discussion of the vital problems of the day, his lecture on "The Engineering Mind in the Second Industrial Revolution" is expected to arouse wide interest. The Aldred Lecture is open to juniors and seniors.

Mr. Filene is internationally known as a pioneer in scientific retail distribution, and as an active figure in world politics and business. A native of Salem, Mass., he was graduated from high school and soon after entered his father's small retail business in Boston. Brought into contact with municipal problems by the rapid growth of this enterprise, he has ever since been active in the organization and promotion of such civic bodies as the Public Franchise League of Boston, the Boston City Club, Boston Chamber of Commerce, and the Metropolitan Planning Commission.

Applied Theories To Business

Mr. Filene has supplemented his practical experience with theoretical studies of business management, labor problems, and sociology. In his own store, as his laboratory, he weighed and balanced the ideas and suggestions he received from books and, as might have been expected, he unearthed a few discrepancies between theories and actualities. Out of this experimentation came the attempt upon the part of the Filene brothers to apply science to the prevailing me-

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LOBDELL ATTACKS FRATERNITY CRITICS

Dean, Speaking at Interfraternity
Conference, Denies Frosh
Are Led Astray

In an address before the annual meeting of the National Interfraternity Conference Friday, Dean Harold E. Lobdell, '17, strongly attacked critics of the present fraternity system.

Stating that the oft repeated stories of freshmen being led astray by their upper-classman fraternity brothers are myths, he said, "Not only are actual instances of boys being affected adversely by their fraternity mates extremely rare, but the files of any dean of men's office can furnish plenty of examples of a boy being prevented by the influence of his fraternity brothers from leading himself astray."

He opposed deferred pledging, stating his belief that the fraternity deserves a place in the educational system because it can help its members meet the multitude of problems encountered at college, and it therefore has a special duty in helping entering freshmen. Instead of being too snobbish, Dean Lobdell said that fraternities usually err in not being selective enough, as fraternity membership should be a privilege open only to the best men in school.

Freshmen Bear Little Resemblance To Hicks

He said that the freshman of today, even though he hail from Hinterland, bears little of the appearance of the "callow hick of the 1900's". Instead, Dean Lobdell said that his

(Continued on page four)

GERARD SWOPE IS ELECTED MEMBER OF TAU BETA PI

Local Chapter Will Initiate Industrial Leader at Meeting
Next Week

14 STUDENTS ELECTED

Gerard Swope, president of the General Electric Company and member of the Institute Corporation, together with fourteen undergraduates will be initiated into Tau Beta Pi at the meeting to be held a week from tonight. President Karl T. Compton has been invited to speak at the meeting at which all undergraduate active members and also graduate members are expected to be present.

The Tau Beta Pi, a national honorary fraternity for engineering schools, is the highest award attainable at the Institute. Its members are picked on a scholastic basis with activity requirements, and only from the engineering courses.

The eleven Seniors who have been elected to the honorary engineering society at this time are Frank Der Yuen, William A. Gray, John G. Hayes, Neil E. Hopkins, Maxwell Du Val Millard, Charles E. Miller, James E. Norcross, Otto A. Putnam, Henry A. Rahmel, Douglas M. Stewart, and Robert H. Winters. These men are all from the upper quarter of their class.

Three members of the Junior Class have been elected for membership in the Society, namely, Gordon K. Burns, Edgar B. Chiswell and Howard L. Reichart.

The initiation of Mr. Swope, one of the outstanding leaders in industrial America, will mark a high point in the history of the local chapter of the fraternity. Mr. Swope was elected to the society last spring, but was unable to attend the initiation at that time.

For his outstanding achievements in the engineering field and the work he has done for the Institute, the Technology chapter of the Tau Beta Pi thought it fitting that he be admitted as an honorary member of the fraternity. Only men who have reached the peak of their professions are initiated as honorary members of the group.

Gordon K. Burns, '34, received third place in the 1930 competition for the Edison Scholarships. He is a Theta Delta Chi, on the executive committee of the American Institute of Electrical Engineers, a member of the track and wrestling teams and the staff of the T. E. N. He is taking Course VI-A, and prepared at Colum-

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Freshman Cagers Prepare For The Opening Contest

Face Wentworth In Two Weeks;
Several Stars Found To
Be Ineligible

With the first game of the season less than two weeks away, Coach H. F. McDonnell has been grooming his freshman basketball squad against the varsity and getting ready for the strenuous schedule which is in view.

Practice started about November 2, with a squad of twenty men reporting for practice at the Hangar Gym. Several of these men appeared to be very good prospects, but just as things were brightest, it was discovered that five or six of the twenty were transfers and consequently ineligible. Since all of the transfers

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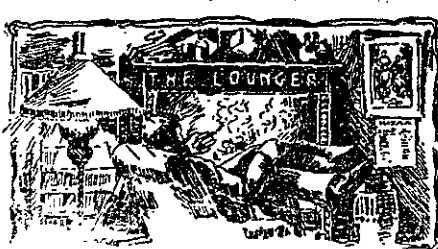
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Ever and anon we are apprised of the fact that all there is to know is not yet known. In fact, every day brings with it some fresh discovery made by discerning and astute personages, and there you are.

Today the frontiers of knowledge advance another notch as man pursues his relentless search for the good and true. The benefactor to mankind in this case turns out to be Professor Magoun.

The worthy professor had occasion to review something with reference to the early history of America, for the edification and benefit of his class. Said Professor Magoun,—"The first person to discover the United States was Lief Ericson." We were afraid something like this would happen.

Unfortunately, we have been pledged to secrecy as regards the identity of the fraternity where the following is said to have taken place. You really don't have to swallow it whole, but it does make a nice story.

In common with many of today's degenerate youth, a brace of the brothers were given to a fondness for dat ole' debbil, and forthcoming savior of America, beer.

On one murky afternoon, the head of the fraternity swung gaily into the hallway and was arrested by the sound of shots, loud and vigorous shots, coming from the upper part of the house.

Quickly proceeding to the investigation, he ran rapidly up the stairs and entered the room.

There were the beery twain, one facing the other, both staggering slightly and both obviously in their cups. On the head of one a beer bottle perched precariously, swaying to and fro with every lurch of its support. In the hand of the other was a large and dangerous forty-five, wobbling back and forth as the holder sought to draw a bead on the dead soldier. Splintered holes in the wall offered mute testimony as to his inability to accomplish same.

Horried, the president intervened, meanwhile shouting at the two to stop. With amazement in their faces they faced him with the dignity of advanced inebriation. "Aw", they opined in chorus, "S'all ri', we're jush playin' William Tell." And they swear before God that it actually happened!

To those misguided and maltreated devils who must needs sit through one solid hour of organic chemistry lecture, three times a week, week in and week out, the presence of Professor Underwood in the same class must be somewhat of a mystery. To those fortunate ones who do not happen to be burdened with the course in question, Professor Underwood compiled the charming little book of problems.

But there he sits, every lecture, every week, and always writing, writing, writing, in the little notebook. We have no official utterances to quote, which might solve the enigma, but, our guess being as good as the next one, we do have a little theory which seems to account for all the known facts.

Obviously the professors in charge have arrived at the conclusion that they can no longer make corrections for the new editions of the present text, to be sold to each incoming class. With things at this ultimate and horrible state of perfection, there is only one path left for the poor harried professors. They must write another.

AWAY FROM THE GRIND

The Tech Ramblers furnished music at the formal Sigma Chi dance at The Little Madrid last Wednesday. Two hundred couples were in attendance, and enjoyed it. Chaperones were Mr. and Mrs. Harrison Von Urf, Mr. and Mrs. George Cervis, Mr. and Mrs. Philip E. Newman, and Mr. E. F. Parker.

Open Forum

In opening its columns to letters addressed to the Editor, THE TECH does not guarantee publication of any communication nor does it necessarily endorse the opinions expressed. Letters on subjects of interest to the student body are welcome if signed. However, if the writer so desires, only the initials will appear on publication.

Sounds Good To Us

To the Editor of THE TECH:

Dear Sir:

I have been considering strongly cancelling my subscription to THE TECH especially under present conditions when wheat is selling for 25 cents per bushel, best quality, right here in Ipswich.

However, your issue of Friday, November 18, had so much pep in it and really constructive criticism that you will find enclosed my check for \$2.50, which I believe will take care of my subscription up to December 31, 1933. Your editorial, "Good Teachers and Bad", is just simply masterly. More power to you!

Also the definite suggestions for improvements of the cafeteria.

I graduated 22 years ago and this is certainly refreshing. I hope other colleges put out editorials following suit.

Yours truly,

HIRAM E. BEEBE, '10.
Ipswich, South Dakota.

For Good, Honest Discipline

To the Editor of THE TECH:

Dear Sir:

Many years ago when the present freshman class were but babes in arms, some few of us were similarly afflicted with the necessity of gun toting for the R. O. T. C. At that time we could see a slight advantage in being compelled to take Military Science, namely, the breeches and puttees were excellent for ice skating. But now that that advantage of Military Science has been taken away by the introduction of the tin-soldier tunics, we have cast about in the deep recesses of our minds for a substitute justification for that dreaded drill.

We thought we had it in the disciplinary training that the strict and mighty West Pointers brought to the Institute. But alas and alack, even that fond notion has been destroyed. We have daily occasion to walk through the basement of Building 1 at three o'clock, just as the freshmen are issued their rifles. And how we still live, we don't know. It is dodge

As We Like It

THE SHUBERT THEATER

"Face the Music"

If you have even a vague recollection of the goings on of politicians in our great metropolis of New York as reported in numerous publications and even more numerous conversations, and a faint remembrance of "little tin boxes", you will undoubtedly enjoy the biting, striking satire on New York politics that is playing at the Shubert. Irving Berlin and Moss Hart in "Face the Music" have not veiled their satire with pleasant good humor as was the case in "Of Thee I Sing"; it is stinging.

From the time the front drop goes up showing a brilliant, dashing array of color to the lavish, wholly extravagant and amusing court room scene of an investigation as Mr. Reismann would put it on for the entertainment of the public, the show seems good. It does not follow a plot directed to one end but rather turns and stops, giving time for numbers that are primarily of a revue type.

Mary Boland, as Mrs. Meshbesh, wife of the police sergeant who has too much money and must find some way to dispose of his little tin box, does a splendid job. She fills the stage: witty, foolish, shrewd, silly, and she appears to enjoy it all. Surely we did.

The tunes: "Let's Have Another Cup of Coffee", "Soft Lights and Sweet Music", "My Rhinestone Girl".
B. W.

this muzzle, dodge that muzzle. Inquiry from the sergeant on duty revealed the fact that the dear boys had been told once that they were supposed to trail arms in the buildings but, as he put it, "how can one lone sergeant control a mob of freshmen?"

My answer, Mr. Sergeant, is or should have been, that discipline is not obedience when a police force of army officers is around, it is conformity to rule when there is no one to check up on the subordinate. And further, a group of trained men should not be a mob, even if leaderless. If the professional staff of the Military Science Department wants to build up the civilian public a respect for the ideals of the army and more particularly for their Alma Mater, West Point, let them teach their students here the true meaning of discipline.

Honesty is but a particular case of discipline; would you consider a subordinate honest, Mr. Army Officer, if he did not steal when you were present, but misappropriated your cigars the moment you left the room? Unless the graduates of the United States Military Academy we have at the Institute train their freshmen (perhaps through showing them the reasoning behind a few of their orders) to carry out all orders, whether they are watched or not, to be instinctive in their obedience, they have not done their duty to their commander-in-chief to train good citizens for the nation.

Very truly yours,

A.M.

ASSERTS NECESSITY OF CHEMICALS TO WAR

(Continued from page one)

be made effective enough to be fatal to large numbers of people. No matter how toxic gases can be made, when dispersed over large areas they become very dilute by mixture with air. Exaggerated stories about all the inhabitants in cities like New York being wiped out with one gas bomb are utterly unfounded, Professor Keyes stated.

Professor Keyes described the field chemical warfare laboratory used under his supervision during the World War, and showed lantern slides of photographs he, personally, had snapped during the War. He told about his summons to Washington where he was given charge of establishing a field laboratory of chemical warfare in France. This became the basic laboratory of the allied nations. During the war Professor Keyes held a lieutenant-colonel commission. Scenes of French towns shattered by artillery fire, pictures of tactical methods in using gas, and views of the laboratory were shown on the lantern slides.

A significant fact in the discussion of future chemical warfare is the preparedness of both the United States and Germany for this type of fighting. Both these nations have great natural resources and factories necessary for the effective use of chemicals. England and France are weak in this respect, and it is for this reason that they want to outlaw chemicals from international war.

AMUSEMENTS

STAGE

"Face the Music"—At the Shubert. Well-made satirical musical play, of the type of "Of Thee I Sing", but less humorous, more pointed, and more biting satirical than its predecessor. Music by Irving Berlin, acting by Mary Boland. (Reviewed in this issue).

"Walk a Little Faster"—Now moved to the Colonial. New musical review, with Beatrice Lillie, Clark and McCullough, and music by Vernon Duke. Has excellent possibilities.

"The Chillingtons"—At the Hollis. Bordering on farce, pleasant English comedy, with quiet humor and some not so quiet. Bewildering, somewhat pointless, but very entertaining.

SCREEN

"Mädchen in Uniform"—At the Maebstic. New German film, preceded by reports of unusual excellence, acted by an entirely new cast of girls and women. Two showings daily.

"Fine Arts"—"Tragedy of Dostoyevsky". Russian talkie based on the life and ideas of the great novelist.

"Metropolitan"—"If I Had a Million", with Gary Cooper, Jack Oakie and others. On the stage, "Mardi Gras".

"Parade and Uptown"—Joe E. Brown in "You Said a Mouthful".

"RKO-Keith"—Constance Bennett in "Rockabye" with Paul Lukas, Joel McCrea.

"RKO-Boston"—"The Sport Parade", fairly good story out of old materials. Robert Benchley is a high spot.

"State and Orpheum"—Joan Crawford in "Rain". Inadequate acting and too much dampness make it disappointing.

UNCLE SHYLOCK TURNS

ONCE again we have an exchange of notes between Britain and our government at Washington. England will make an appeal on the grounds of "humanity", according to press dispatches. What the reaction to such an appeal will be remains to be seen, but clearly there has been a change in the attitude of the United States as represented in public opinion. For years we have listened to reason as it was presented by the debtor nations. Drastic reductions have been made and our people have taken them with good grace, probably under the guise that we could afford to do so in the hope of stabilizing world conditions and rehabilitating the world.

Recently, however, even within the past year or so, there has been a change of heart. The man in the street, unacquainted with the complexities of international finance but fully aware of the tax burden imposed on him, has come to the point where he is willing to stop playing the part of the good samaritan. For long he has been the goat of debt agreements. His representatives reduce, postpone, cancel war debts, and the taxes to pay interest on the bonds floated in this country so we could lend to the European nations rise and rise. To keep our credit standing, we must continue to make these interest payments whether we receive our installments from the debtor nations or not. The "Forgotten Man" is coming to the conclusion that he would just as soon see a default as be taxed indefinitely.

Some reasons have been suggested as the cause for this change. The public does not see the promised dire consequences if the debtors cannot pay. If England, for example, does not make the payment on the 15th of December, what will it matter? There is a feeling that we have borne the brunt of debt changes long enough. Someone else should take a bit of the load now that we are pressed with our own problems. There is a general attitude that the nations are trying to repudiate their debts without the disgrace that follows such action. Step by step the debts are being repudiated. There is a natural resentment to the nomen "Uncle Shylock" that has been attached to the United States by some European countries. In short, we are tired of it all and we want a settlement.

In view of this more or less apparent sentiment, it seems unlikely that our leaders will do anything which will antagonize their public and this means that any further revision will be difficult if possible at all.

REWARD THE MINORITY

AMONG the news items in today's issue appears the list of engineering students who have been selected for Tau Beta Pi, the national honorary engineering fraternity. Membership in this organization has been clearly recognized as the most coveted honor that is at present bestowed at Technology, for it requires not only scholastic excellence but activity attainments as well.

Slightly under six hundred members of the student body are ineligible for this strictly engineering fraternity. They have absolutely no recognition for their attainments here at the Institute.

An inquiry into the possibility of starting a chapter of Phi Beta Kappa reveals that it is confined to colleges giving B. A. degrees upon graduation. Thus this channel is closed to those students in the pure science courses, for they are awarded Bachelor of Science degrees.

At the Institute the science courses, Architecture, Chemistry, Biology and Public Health, General Science and Mathematics are becoming increasingly popular. There should be some means of rewarding the students in these fields for outstanding achievement. There is a solution to this in the National Honorary Research Society, Sigma Xi. It would be well to look into the possibility of establishing such a fraternity here at Technology for this important minority.

TRACK MEN START WORK FOR COMING SEASON ON BOARDS

Varsity One-Mile and Two-Mile
Relay Events Attract
Many Runners

BELL OUT FOR SPRINTS

Now that the fall activities on track and field have come to a close at Technology, Coach Oscar Hedlund is looking forward to the winter season and is giving his men preliminary training in the indoor events.

Technology's season on the boards will open December 10, with an intramural handicap meet. The first intercollegiate competition will take place on December 21 when the Engineers take part in the Boston Y. M. C. A. meet. The schedule for the first part of the season shows that Technology will take part in seven meets, including the K. of C. games, the Millrose games, the B. A. A. games, and the I. C. A. indoor championship at New York.

Many Out For Mile Relay

Tryouts for places on the varsity one-mile relay team will draw the largest group, with a possibility of ten men taking part. Walter Wrigley and Rees Schwartz, both of last year's team, and Rudolph Rosas, a member of the 1931 team, are likely winners of places.

Other men who are doing preliminary training for the tryouts on December 21 are Edward Walsh, Melvin Sousa, Richard Jarrell, Earl Lockhart, Charles Hill, and Ted Rimbach, winner of the Hexathlon two weeks ago. Coming up from last year's freshman team are John S. Holley and Clarence W. Horton.

Cross-Country Men Out

While it is possible that a number of these candidates will shift to

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THE TECH DEFEATED BY SNIVELLING SNEAKERS

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seventh point. After this score the ball was again forced into THE TECH territory on the kickoff. A spectacular punt by Stockmayer put the ball deep into the opposition's territory where it was fumbled, thus placing the newsies in scoring position. An aerial attack proved futile, and shortly before the half a long pass was intercepted, thus losing to THE TECH all chances to score during that period.

The play in the third quarter was mostly in midfield, neither side making any gains. In the fourth period however, Essley again broke loose for a number of long gains culminating in the second touchdown. The ball was fumbled by Norcross in the try for extra point, bringing the score to 13-0. THE TECH at this time made several changes in the line which resulted in foiling an attempt by Technique to score a third time. Finally, as the game neared its end, THE TECH took the ball, and made several tries at long passes, none of which were successful.

Lincoln gained many yards for the news-room team, while Captain Wise played an excellent defensive game. Essley and Davis starred for Technique.

Lineup:

THE TECH	position	Technique
Schefftleman	RE	Nelson
Saylor	RT	Evers
Bartol	RG	Sheppard
Hamilton	C	Peel
Odiorne	LG	Werner
Hossfeld	LT	Linke
Stockmayer	LE	Silberman
Martin	QB	Davis
McCrensky	RH	Essley
Ray	LH	Byrne
Wise	FB	Norcross

Substitutions:

THE TECH: Lincoln for McCrensky; Devine for Odiorne; Porter for Saylor.

Technique: Howell for Silberman; Achterkirchen for Nelson; Howell for Davis.

Referee: Harner Selvidge. Umpire: Clarence Cohn. Linemen: H. S. Mason, C. W. Sweetser.

Latest Researches Show Vocabulary Necessary To Success At Institute

Prof. Johnson O'Connor Says
Mental Traits Compare
With Elements

Read the dictionary and pass through Technology with a flat five rating. Of course it may not be as easy as that for everyone, but the more words you know the better rating you will receive. To express it in technical form, vocabulary has a very high correlation with success in academic and theoretical subjects. This is just what Professor O'Connor's latest researches show.

Three years ago at Stevens Institute of Technology one quarter of the freshman class was demarcated to receive special instruction in vocabulary. These men were selected entirely at random. The drill they received consisted solely of the avoidance of repetition of the same words and the encouragement of the use of a diverse vocabulary in their written work.

Fortunate Quarter Improve

The three quarters of the freshman class who were given no drill did not improve in vocabulary as fast as academic-college freshmen in other institutions. However, the fortunate quarter of the class not only became more adept in the use of words than their classmates but rated higher than the academic-college men as well. Moreover this improvement was not confined to vocabulary alone. The year after the start of the drill the sections which had received it showed consistently greater improvement than the rest of the class in all school work. Professor O'Connor analyzes this by saying, "Forced improvement in vocabulary seems to be reflected generally in improved thinking."

A peculiar fact in connection with vocabulary is its efficiency in causing an increase in the general rating, no matter whether the vocabulary increase is forced or natural. Some men are given a large vocabulary by the influence either of heredity or environment. Others, not so fortunate, must acquire their vocabulary in later years by conscious effort. Yet the net result is the same. Both types of men are successful, and equally so.

Detection of Ability

At Technology Professor O'Connor is connected with the Department of Business and Engineering Administration, and therefore his work here is directed mostly toward the detection and measurement of executive ability. Consequently when he says success he means executive success. He seeks to measure this success in as scientific a manner as possible.

FILENE OPENS SERIES OF ALDRED LECTURES

(Continued from page one)

thods of buying and selling. It is this ability to question what many business men accept as axiomatic and obvious that is perhaps the fundamental note of Mr. Filene's career.

During the war, Mr. Filene served as chairman of the War Shipping Committee, and as a member of the Committee for Financing War of the United States Chamber of Commerce. He helped found the League to Enforce Peace, and in 1924 organized and financed the European Peace Award competitions to stimulate interest in international co-operation and the post-war rehabilitation of Europe.

Founded Business Societies

To Mr. Filene's efforts is owed the founding of the Credit Union National Extension Bureau, through which the co-operative credit associations in the country are directed. He is a member of the General Advisory Council of the American Association for Labor Legislation, and co-organizer of the International Management Institute in Geneva. He was instrumental in the formation of the Chamber of Commerce of the United States and of the International Chamber of Commerce, which now includes business and industrial leaders throughout the world.

Mr. Filene is the originator of an ingenious device whereby members of

It is this same vocabulary test that has such a high correlation with schoolwork success which represents his best work along that line. He finds that a group of one hundred presidents and vice-presidents of successful companies average higher in the test than any other group which has been measured.

Executives Score High

Out of 150 words the executives scored 143 on the average. College professors scored a close second with 142. Among college graduates the classical students easily outrated the engineers scoring 129 to the engineers' 120. It is Professor O'Connor's opinion that all those with large vocabularies tend to drift into executive work. In view of this fact and of the fact that many Technology men have taken one of the tests, the following table may be of some interest.

	Average Vocabulary Score	Executive Standard
Ninth Grade	74	121
Tenth Grade	77	125
Eleventh Grade	87	128
College Freshman	103	131
Sophomore	108	134
Junior	117	137
Senior	119	140
	121	143

Many men will remember the test given last spring. The above figures do not apply to that test. It is a new one and was made up last year by some of Professor O'Connor's students at the Institute. During his year's reading each man made a list of the words he did not know. All the lists were then gathered and the test was drawn up from them.

Professor Inglis Secures Words

The original test, of which there were about half a dozen different but comparable groups of 150 words, was not composed in a manner quite so haphazard. The words for the test were taken from a list prepared by Professor Alexander Inglis of the Graduate School of Education of Harvard University. Professor Inglis had the tiresome task of selecting these words from *The Saturday Evening Post*, *The New York Times*, modern novels, and so on. They were chosen on the basis of use. It is not easy to imagine the tediousness of such a task. It must be horrible!

Each word in the test occurred once in a hundred thousand words of reading matter. This means that the words are fairly difficult ones. Five per cent of the words were taken from *The Saturday Evening Post*, five per cent from another source, and so on

(Continued on page four)

international conventions in assembly can, by the twist of a dial, hear a speech delivered in any one of several different languages. By means of individual telephone receiving sets the speech is relayed by special translators in the particular language of each listener. This international translator has been used by the International Labor Bureau at Geneva, and at the League of Nations Assembly.

Mr. Filene is an officer of the French Legion of Honor and the Italian Order of the Crown. Czechoslovakia has awarded him the Order of the White Lion, and the Austrian government the Great Gold Cross of Merit.

Is Member of Many Leagues

He is a member of the American Academy of Political and Social Sciences, the American Civic Association, the American Economic Association, the American Statistical Society, the Council on Foreign Relations, the Foreign Policy Association, the League of Nations Non-Partisan Association, National Economic League, the National Institute of Social Sciences, the National Municipal League, the National Child Labor Committee, the Taylor Society, the American-Russian Chamber of Commerce, and the Austro-American Institute of Education.

Mr. Filene is the author of several widely translated books, including "Successful Living in This Machine Age", "The Way Out", "More Profits from Merchandising", and "The Model Stock Plan".

ANTARCTIC VETERANS ARE M. I. T. STUDENTS

(Continued from page one)

All the time is the expedition's time. One has relaxation periods in the ordinary routine but there are times when one doesn't, and one should never feel hurt at having to forego either sleep or pleasure on these occasions."

One of the dangers in transporting the equipment from the ship, the "City of New York," to the base, Little America, was the pressure ice, the formation of great ledges of ice which



ARNOLD H. CLARKE, '36
"Aided physicist on expedition"

came up into the air from between "ice pans" and obstructed the way. In one case, Demas explained, when the Byrd plane was being carried across the five miles of ice which separated the ship from the base, a ledge of pressure ice came up unexpectedly next to one of the wings. He being nearest to the wing at the time shouted as loud as he could, and the timely work of the men nearby saved one of the most important parts of the expedition equipment.

That Admiral Byrd values Demas is evidenced by the autographed volume of *Little America*. It is inscribed:

"To my friend E. J. Demas — I present this volume with deep appreciation of his never failing loyalty and his great contribution to the success of my last three undertakings, and very best wishes for his success and happiness — warmest regards. Dick Bryd." It is dated January 11, 1931.

About operating the "Ford" in the Antarctic, the automobile fitted with skis to adapt it for travel on snow, Clarke jokingly mentioned that he also had the distinction of being the first to walk back from an auto breakdown on the Antarctic continent. Among varied jobs in Little America, Clarke helped the meteorologists, William C. Haines, Henry Harrison, and the aerial photographer, Captain Ashley C. McKinley.

Clarke comes from Greenfield, where he spent his early youth. In 1928 he was one of those chosen out of several thousand applicants to be a member of the Byrd Antarctic Expedition, which lasted until 1930. In order to pass his requirements for entrance to Technology he prepared at the Berkeley School in Boston.

Demas, whose first name, Epaminondas, has been shortened by expedition-translation to "Pete", was born in Greece and came to America at the age of eleven. He so applied himself to his studies that he had completed in five years the equivalent of an eight year grammar school course and was graduated from high school in 1926. Developing early in his youth an interest in airplanes, he spent much of his time at Hoover Field and worked there for some time without pay. Soon becoming outstanding in this line of work, he was chosen as one of the members of the Byrd North Pole Expedition. After this expedition and the Byrd Trans-Atlantic flight, he joined the Dominion Explorers, a party which did prospecting in Hudson Bay for copper and gold. The year 1928 found him back to join the Antarctic Expedition.

GLASSBLOWING TO BE DEMONSTRATED TODAY

An exhibit of laboratory glassware construction, past and present, together with a demonstration of glassblowing will be given by W. T. Levitt of the Corning Glass Company this afternoon at 4 o'clock in Room 10-250. All interested in this work are invited to attend.

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How To Avoid BONERS

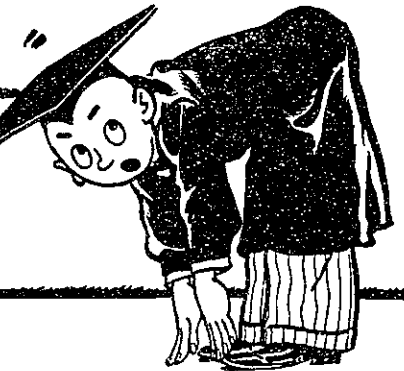
A GOITER IS
A MUSICAL
INSTRUMENT

THERE ought to be a law against people like Bill Boner! He even thinks an escapade is a staircase outside a house

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CALENDAR

Monday, November 28

4:00 P. M. — Glass Blowing Demonstration, Room 10-250.
6:00 P. M. — Alumni Council Dinner Meeting, North Hall, Walker Memorial.
5:00 P. M. — Tech Ambassadors, East Lounge, Walker Memorial.

Tuesday, November 29

5:00 P. M. — Beaver Key Society Meeting, North Hall, Walker Memorial.
5:00 P. M. — Banjo Club Rehearsal, East Lounge, Walker Memorial.
7:00 P. M. — Boat Club Banquet, North Hall, Walker Memorial.
12:00 M. — Faculty Club Luncheon Meeting, North Hall, Walker Memorial.

Wednesday, November 30

6:00 P. M. — Alpha Chi Sigma Dinner Meeting, Faculty Dining Room, Walker Memorial.
8:00 P. M. — Quadrangle Club Meeting, North Hall, Walker Memorial.

A. S. M. E. TO HEAR STORY OF ASBESTOS

Gerald W. Blakeley, '14, district engineer of the Johns Manville Company will speak before the Technology student chapter of the A. S. M. E. on Thursday afternoon at 4 o'clock in Room 5-330. The title of Mr. Blakeley's talk is "The Story of Asbestos".

The talk, which will describe the manufacture of asbestos from the raw material to the finished product, will be accompanied by moving pictures. In addition there will be an exhibit of asbestos products.

LOBDELL ATTACKS FRATERNITY CRITICS

(Continued from page one)

dress and mannerisms, like those of his classmates matriculating from expensive preparatory schools, are derived from Hollywood. The accent he uses, his taste in music, politics, and drama, have all been influenced by the same agencies as the city freshman. The Dean continued saying that these changes have been brought about largely through what he termed "ma-

jor upheavals" resulting from prohibition, motion pictures, and automobiles.

CAGERS PREPARE FOR THE INITIAL CONTEST

(Continued from page one)

were very good players, this was a very severe blow to the team.

Tentative Team Chosen

Coach McDonnell went to work with the remaining members of the squad, however, and has now developed a team which should give its opponents something to worry about. A tentative line-up has Garth, Kalmar, and Thornton as forwards; Bode and du Pont as guards; and King as center. These men have been scrimmaging against the varsity two and three times a week, and have demonstrated considerable ability.

With this group Coach McDonnell expects to start an exceptionally strong schedule on December 10 against the Wentworth Institute in the Hangar Gym. The season will run until March 4, when the final game will be held with Keene Normal School.

VOCABULARY NECESSARY IS SHOWN BY RESEARCH

(Continued from page three)

until all the words had been gathered. However, technical words were not wanted in the list, so after all the words were gathered together anyone who had the slightest suspicion of technical offense on the part of a word was permitted to cast that word to the winds. The remaining words were the completed task.

Abilities Also Desirable

A large vocabulary is not the only thing that can be correlated with success as an executive. Professor O'Connor found seven other characteristics in which the executive secures a high score. These are called aptitudes. They are quite different from vocabulary, which is an acquired characteristic. If a person scores high in an aptitude at an age of about sixteen he will always score high, if he scores low at that age he will not later be able to improve his score.

The first of the seven aptitudes is personality. There is a word for the type of personality at each end of the personality "scale". A person whose personality is placed at the "left" end of the scale is called objective. Salesmen are a very objective type. The person who is rated way over at the right end of the scale is called subjective. Professional and research men are subjective as a type.

Four other aptitudes are tweezers dexterity; and singularly enough, separated from it, finger dexterity; clerical aptitude, a gift for grasping the significance of numbers; and creative imagination.

Wiggly Block Measures Aptitude

The sixth aptitude is the engineering aptitude. A majority of successful engineers rate high in the test, which is the famous wiggly block. Professor O'Connor finds that the ability necessary to put together a wooden block carved into nine pieces with curved surfaces indicates a gift for visualizing three dimensional structure, which gift is almost vital to the engineer.

A test of the wiggly block variety can be found in only one way. The tests are so peculiar that it is almost impossible to reason them out. Trial and error must be used to find them. The wiggly block was about the thirtieth of a series purporting to measure an engineering aptitude. Other tests of the series did not give satisfactory results when engineers took

them so they had to be discarded.

Few Men Pre-eminent

Seventh in the list of aptitudes is tonal memory. The frequency of success in all seven aptitudes is interesting. The scores in each aptitude are divided into quarters. One man in about 16,000 reaches the highest quarter of all seven aptitudes. One man in about 125 gets into the first half in all seven. A man who receives a high rating in an aptitude tends to employ his ability. This probably explains the fact that executives as a group score high in the aptitude tests.

Besides these seven elements which can be distinctly measured and distinguished there are others which can be approximately measured. Inductive reasoning and an artistic sense are among these, as are several musical aptitudes along with visual memory.

Memory Is Not Mental Element

An astonishing thing about visual memory is that it does not correlate with tonal memory. A person with an excellent memory for tunes may not be able to remember anything he sees. Asked to account for this, Professor O'Connor said he did not know what memory was. Intelligence, memory, judgment, and willpower, as mental elements, he explained, could be compared to the primitive chemical elements, earth, fire, water, and air. These primitive elements, the professor continued, were real and practical, but they were not scientific; they could not be measured. Just memory can not be measured. Visual memory and tonal memory are two different, but somewhat alike, elements. Both can be measured, and different persons do not have the same amount of each. Altogether there are about twenty different mental elements which Professor O'Connor can recognize, although, as has been previously mentioned, he can not measure distinctly, more than seven.

Work May Be Expanded

Professor O'Connor was asked if his work would ever be applied to the whole of Technology. He hoped so and had no personal objections to such a scheme; the initiative probably lay with department heads. At present he obtains aid from the Rockefeller Foundation for the research he is carrying on. When he started his work Professor Dugald C. Jackson of Course VI was interested and obtained help for him. Now any person may take his tests at his laboratory, but it is still necessary to make a small charge.

FRESHMEN URGED TO JOIN MUSICAL CLUB

With the approach of the Christmas Concert, the Combined Musical Clubs have issued another call for all men who can play musical instruments, or give specialty acts, to report to the office of the clubs on the third floor of the Walker Memorial. Accordion, xylophone and players of any bass instruments are especially urged to come out.

Freshmen who are interested in the business side of the organization may enter competition for Sophomore and Junior positions. These men will be privileged to attend the numerous concerts that are to be held in girls' schools in and around Boston.

GERARD SWOPE ELECTED HONORARY TAU BETA PI

(Continued from page one)

bia High School, Maplewood, N. J. Edgar B. Chiswell, '34, of Washington, D. C., went to Central High School in that City. In Course X, he is treasurer of the Combined Musical Clubs and a member of the Beaver Key Society.

Frank Der Yuen, '33, comes from Charlotte, North Carolina. He is a member of Scabbard and Blade, and the Aeronautical Engineering Society. He prepared at McKinley High School of Washington, D. C. He is in Course XVI.

William A. Gray is treasurer of the electrical engineering society and is in Course VI. He comes from West Roxbury where he attended Boston English High School.

John G. Hayes, one of the Seniors elected to the fraternity, is the General Manager of THE TECH and the president of Alpha Tau Omega fraternity. He transferred from Marietta College of Ohio after his freshman year and entered the Institute where he enrolled in Course VI-A.

Neil E. Hopkins also comes from English High. He is at the present time captain of the rifle team and treasurer of the Mechanical Engineering Society.

Maxwell Du Val Millard, '33, of Morristown, N. J., is a graduate of Princeton University where he majored in philosophy. He is editor-in-chief of the VI-A News, the publication of Course VI-A.

Charles E. Miller, '33, of Brookline, was on the freshman crew in 1930, and the varsity in '31 and '32. He is a member of the Tech Boat Club. He prepared at Brookline High School, and is also in Course VI-A.

James E. Norcross, '33, is president of Sigma Nu and General Manager of Technique. In Course VII, he is a member of Associated General Contractors, Pi Delta Epsilon, and Grogg. His home is in Kansas City, Kansas, where he attended Junior College.

Otto A. Putnam, '33, of Bath, New York, was formerly secretary of Theta Chi and of his class in the freshman year. He is in Course XIV and a member of the wrestling team.

Henry A. Rahmel, '33, of Chicago, enrolled in Course VI-A. He received the first two years of his technological education at Armour Institute of that city. There, he was on the college paper, the men's choir, and the radio club. At Technology, he is on the staff of the VI-A News.

Harold L. Reichart, '34, is on the Budget, Curriculum, and Freshman Rules Committees, and a member of the Quadrangle, Beaver Key, and Beaver Clubs. Manager of Swimming and a member of Delta Upsilon, he hails from Rochester, New York, where he attended John Marshall High School.

Douglas M. Stewart, '33, of Providence, Rhode Island, received his A. B. degree at Brown University. Here, he is president of the American Society of Civil Engineers and a member of Phi Gamma Delta fraternity.

Robert H. Winters, '33, of Lunenburg, N. S., received a B. A. from Mount Allison University of Sackville, Canada. He is now working for an M. S. degree.

The newly elected members have been asked by Donald Fink, the president of the Tau Beta Pi, to be present at a special meeting to be held tonight in the North Hall of the Walker Memorial at 5 o'clock.

SCHEDULE TRACK WORK FOR WINTER

(Continued from page three)

the longer two-mile run, there are a number of men setting out from the beginning to gain places on the team in the longer race. These men are Johnny Barrett, captain of this year's cross country team, John G. Smith, cross country captain-elect, and Robert E. Mann, varsity miler.

Among the candidates for the freshman one-mile relay are Wendel K. Fitch, Richard Hitchcock, William T. Royce, Roland E. Beckman, Henry C. Runkle, and Edgar C. Rust, Jr. It is still too early in the season to tell what these men will do, and Coach Hedlund has not yet reached any conclusions regarding the yearling team.

Bell Expected To Star

In the sprints, Richard Bell, outstanding sprint man of the Boston area last winter, will undoubtedly be the star performer. Bell ended a brilliant season last winter by placing second in the I. C. A. A. A. indoor 70-yard championship. Other candidates for the short distances are Robert B. Kinraide, Alfred L. Greenlaw, and William E. Keefe.

Two men at present are out for the hurdles, but Coach Hedlund expects more to report during the next week. These are Edgar M. Pierce and Kingman Crosby, both members of last year's team. Stanley T. Johnson is the best of the freshmen who are considering this event. Three men are out for the high jump this early in the season. Pierce, the hurdler, and William R. Tomlinson and Philip

B. Walker make up the triumvirate.

Winter Schedule Announced

The schedule for the winter season as announced follows: Dec. 10, Indoor Handicap Meet; Dec. 17, Indoor Handicap Meet; Jan. 14, Indoor Handicap Meet; Jan. 21, Indoor Relay team tryouts; Jan. 21, Boston Y. M. C. A. Meet; Jan. 28, K. of C. Games at the Garden, and a practice meet with Boston College; Feb. 4, Indoor Handicap Meet and Millrose Games at New York; Feb. 10, Dean Academy and Technology Freshmen at home; Feb. 11, Boston A. A. Games at the Arena at 8 p. m., and N. E. A. A. U. Indoor Championships at 2 p. m.; Feb. 18, Dartmouth and Technology Freshmen and the University Club Games at the Garden; Feb. 25, Indoor Interclass Meet at Technology.

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